

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A system for providing emergency relief location information using a mobile communication network, comprising:

a mobile communication terminal for a relief requester having an emergency key for requesting a relief, a storage means for storing emergency contact information for an emergency contact in an emergency mode and emergency contact information to be transmitted to an emergency management system of an emergency contact point connected thereto, and a control means for allowing a relief requester to access the emergency management system of the emergency contact point that is previously stored in the emergency mode through the emergency key and then to transmit emergency contact information stored at the storage means, and controlling an emergency mode process so that only a call connection request to the emergency management system is limitedly-permitted and a tapping mode for precluding a receiving speech and transmitting only the sending speech upon the call connection is automatically performed; and

the emergency management system of the emergency contact point having an emergency information management server that finds a location of the mobile communication terminal for the relief requester according to emergency contact information from the mobile communication terminal for the relief requester that is transferred through the mobile communication network.

and then transmits emergency contact information and location information of the relief requester that are received from the mobile communication terminal for the relief requester to a mobile communication terminal of a relief personnel adjacent to the mobile communication terminal for the relief requester.

2. (currently amended): The system as claimed in claim 1, wherein [[a]]the control means of the mobile communication terminal for the relief requester turns on the power to control the emergency mode if the emergency key is depressed with the power switch turned off.

3. (currently amended): The system as claimed in claim 1 or 2, wherein [[a]]the control means of the mobile communication terminal for the relief requester controls the mobile communication terminal to operate in a non-sound/non-light mode in an emergency mode.

4. (currently amended): The system as claimed in claim 1, wherein the emergency contact information stored at the storage means of the mobile communication terminal for the relief requester is information on the relief requester representing personal information of the relief requester and short character information representing the emergency situation.

5. (original): The system as claimed in claim 1, wherein the mobile communication terminal for the relief requester further comprises a GPS receiving means for providing location information of the relief requester to the emergency management system.

6. (original): The system as claimed in claim 1, wherein the mobile communication terminal for the relief personnel further comprises a GPS receiving means for providing location information of the relief personnel.

7. (original): The system as claimed in claim 6, wherein the GPS receiving means of the mobile communication terminal for the relief personnel includes a means for calculating a distance and direction from the relief requester by comparing its location information with location information of the mobile communication terminal for the relief requester, and displaying a location coordinate of the mobile communication terminal for the relief requester and a location coordinate of the mobile communication terminal for the relief personnel together.

8. (original): The system as claimed in any one of claims 5 to 7, wherein the mobile communication terminal for the relief requester provides location information to the emergency management system using the GPS receiving means in a state where artificial satellite information used for location detection is added to location information,

the emergency management system transmits location information of the mobile communication terminal for the relief requester that is provided to the mobile communication terminal for the relief personnel in a state where artificial satellite information is included in location information.

the GPS receiving means of the mobile communication terminal for the relief personnel detects the location from the artificial satellite same to the artificial satellite used for location detection in the mobile communication terminal for the relief requester according to received artificial satellite information, and then detect the location coordinate of the mobile communication terminal for the relief personnel.

9. (original): The system as claimed in claim 1 or 7, wherein the mobile communication terminal for the relief requester further includes a beacon signal generator for generating a beacon signal when the emergency key is selected, and

the mobile communication terminal for the relief personnel further includes a beacon signal receiver for receiving the beacon signal and informing its results.

10. (original): The system as claimed in claim 9, further comprising a plurality of beacons whose locations are identified, and

if the output for the input of the beacon signal generated in the mobile communication terminal for the relief requester is sensed from the beacon near the mobile communication terminal for the relief requester operating in the emergency mode, the emergency management system detects the locations of the mobile communication terminal for the relief requester from respective beacons and then providing detected location information to the mobile communication terminal for the relief personnel.

11. (currently amended): The system as claimed in claim 1 or 4, wherein the emergency contact information stored at the storage means further contains information on locations where the relief requester frequently visits.

12. (original): The system as claimed in claim 1, wherein the emergency management system comprises:

a management computer terminal for displaying emergency contact information and an emergency situation short message that are transmitted from the mobile communication terminal for the relief requester.

a short message processing server for processing the short message received from the mobile communication terminal for the relief requester, and then displaying and storing the processed message at a database via the management computer terminal and other display means.

a database for storing emergency contact information and the emergency situation short message received from the mobile communication terminal for the relief requester.

a location retrieval server for retrieving the location of the relief requester depending on location information included in emergency contact information received from the mobile communication terminal for the relief requester, and location information of the relief personnel according to the request by the emergency information management server, and

a database for storing map information, character information on the topographic features, and location information of the relief personnel.

13. (original): The system as claimed in claim 1 or 12, wherein the emergency management system further comprises a database for storing financial information every person, if emergency contact information is received from the mobile communication terminal for the relief requester, the emergency management system performs an emergency financial transaction authentication process for finding financial information of the relief requester from individual financial information and then transmitting financial information of the relief requester to the value added network server to stop a financial transaction for the relief requester, and

the emergency management system further comprises:

a value added network server for connecting the relief requester depending on information on the financial transaction received from the emergency management system and a corresponding financial institute to determine whether to stop the financial transaction for the relief requester, according to the request of the emergency management system to stop the financial transaction through the value added network and financial information of the relief requester, and

a financial institute system for stopping/restoring the transaction state for a corresponding financial transaction of the relief requester using information from the value added network.

14. (original): The system as claimed in claim 13, wherein the financial information every person stored in the database contains the name of a bank, an account number used in the

bank, the name of a credit card company, the type of the credit card, the number of the credit card, and an account number of the stocks and bonds.

15. (original): The system as claimed in claim 13, wherein the financial institute system stops the financial transaction for a corresponding relief requester if a request for emergency authentication is received from the value added network server, and allows a virtual transaction process same to the normal transaction to be performed if a financial transaction for the relief requester is attempted.

16. (original): The system as claimed in claim 15, wherein the financial institute system generates an error message to a corresponding transaction if a direct financial transaction for the relief requester such as a withdrawal of cash is made.

17. (original): A method for providing emergency relief location information using a mobile communication network, the method comprising the steps of:

a relief request access process by a mobile communication terminal of a relief requester, for executing an emergency mode according to the input of the emergency key of the mobile communication terminal to connect to an emergency management system of an emergency contact point that is previously stored at a storage means through a mobile communication network;

an emergency contact information transmit process by a mobile communication terminal for the relief requester. for transmitting information on the relief requester and emergency contact information containing location information, which are previously stored at the storage means, to the emergency management system;

a process of deciding the location of the relief requester by the emergency management system. for receiving emergency contact information from the mobile communication terminal for the relief requester and then generating a current location of the relief requester based on location information of the mobile communication terminal for the relief requester that is contained in emergency contact information;

a process of retrieving the relief personnel by the emergency management system, for retrieving the relief personnel nearest to the relief requester that is decided by retrieving location information of the relief personnel;

a process of commanding the relief personnel by the emergency management system, for accessing the mobile communication terminal of the searched relief personnel and then transmitting emergency contact information containing location information of the relief requester received from the relief requester, so that a corresponding relief personnel can perform a relief work; and

a receipt report signal transmit process for transmitting a receipt report signal indicating that the relief request has been received to the mobile communication terminal for the relief requester. if the fact that information on the relief requester is received from the mobile communication terminal for the relief personnel.

18. (original): The method as claimed in claim 17, wherein the relief request receipt process of the mobile communication terminal further includes a process of determining whether the power is off and turning on the power when the power is off to perform the emergency mode, when an emergency key of the mobile communication device is depressed.

19. (currently amended): The method as claimed in claim 17, wherein the process of transmitting emergency contact information of the mobile communication terminal for the relief requester further includes a process of transmitting surrounding situation where the relief requester is placed to the emergency management system as a sound signal after being switched to a tapping mode.

20. (original): The method as claimed in claim 17, further comprising a receipt report notice process by the mobile communication terminal for the relief requester for executing a vibration mode to perform a vibration function of a specific signal form, when the receipt report signal is received, and then informs the relief requester of the fact.

21. (original): The method as claimed in claim 17, wherein in the relief personnel search process, at least two relief personnel near the mobile communication terminal for the relief requester are searched and then selected.

22. (original): The method as claimed in claim 17, further comprising:

a call connection request admission deciding process by the mobile communication terminal for the relief requester, for determining whether a call connection request made in a state where the emergency mode is performed is the call connection request of the stored emergency contact point; and

a tapping mode execution process by the mobile communication terminal for the relief requester for not allowing the call connection if the counterpart who made the call connection is not the stored emergency contact point, and allowing the call connection to the tapping mode if the counterpart who made the call connection is the stored emergency contact point.

23. (original): The method as claimed in claim 17 or 22, further comprising:

a tapping sound storage process by the emergency management system, for storing a tapping sound provided from the mobile communication terminal for the relief requester connected thereto when the tapping mode is executed in the mobile communication terminal for the relief requester; and

a tapping sound transfer process for transmitting the tapping sound provided from the mobile communication terminal for the relief requester to a mobile communication terminal of a corresponding relief personnel.

24. (original): The method as claimed in claim 17, further comprising:

a release request process of the emergency mode by the mobile communication terminal for the relief requester, for performing a release request of the emergency mode in a state where the terminal is connected to the emergency management system; and

a process of receiving the release request signal of the emergency mode from the mobile communication terminal for the relief requester and then notifying the release of the emergency mode to the mobile communication terminal for the relief personnel.

25. (original): The method as claimed in claim 17, further comprising a process for periodically storing location information from the mobile communication terminal of herein the relief personnel, and wherein location information of the stored relief personnel is information of the relief personnel that is periodically updated.

26. (currently amended): The method as claimed in claim 25, wherein the location information received from the mobile communication terminal for the relief personnel is information generated from GPS receiving information.

27. (currently amended): The method as claimed in claim 17, wherein the location information of the relief requester that is transmitted the mobile communication terminal for the relief requester to the emergency management system, is information generated from GPS receiving information.

28. (original): The method as claimed in claim 17 or 26, further comprising a location detection process of the relief requester by the mobile communication terminal for the relief personnel for displaying its detected location coordinate along with a location coordinate of the mobile communication terminal for the relief requester received from the emergency management system, so that the mobile communication terminal of a corresponding relief requester can be traced using these coordinates.

29. (original): The method as claimed in claim 26 or 27, wherein in the process of transmitting emergency contact information, information on the artificial satellites used to detect the location of location information is further contained,

the location of its own GPS is newly detected according to information on the artificial satellites received from the emergency management system, and its detected location coordinate is then displayed along with the location coordinate of the mobile communication terminal for the relief requester.

30. (original): The method as claimed in claim 17, wherein in the process of commanding the relief personnel of the emergency management system, if whether the beacon signal has been received from the beacon is sensed, the location of the mobile communication terminal of the relief request where the beacon signals are generated from corresponding beacons

is detected, and the detected location information is then transmitted to the mobile communication terminal for the relief personnel.

31. (original): The method as claimed in claim 17, wherein in the process of transmitting emergency contact information, emergency contact information that is transmitted from the mobile communication terminal for the relief requester to the emergency management system, contains information on the relief requester representing personal information of the relief requester and a short message that is previously written by the relief requester.

32. (currently amended): The method as claimed in claim 31, wherein the emergency contact information further contains location information that is registered in advance by a user.

33. (original): The method as claimed in claim 22, wherein in the process of determining the location of the relief requester of the emergency management system, generated location information of the relief requester contains a map data of a graphic form representing a current location of the mobile communication terminal for the relief request and a character data describing the current location using a short sentence.

34. (original): The method as claimed in any one of claims 17 to 22 or 24 to 27, further comprising:

a stop request process of the emergency management system for accessing the value added network server to transmit financial information on the relief requester and then requesting the stop of the financial transaction for a corresponding relief requester, if it is determined that emergency contact information received from the mobile communication terminal for the relief requester is a relief request depending on the emergency mode;

an emergency authentication request process of the value added network server for making a corresponding financial institute request to perform the emergency authentication process depending on the emergency mode, according to financial information of the relief requester received from the emergency management system at the request of the emergency management system to stop the financial transaction; and

a financial transaction stop process for stopping the financial transaction when the financial transaction for a corresponding relief requester is attempted according to the emergency authentication by the value added network server.

35. (original): The method as claimed in claim 34, wherein in the financial transaction stop process of the financial institute, a virtual transaction process is performed same to the normal financial transaction when the financial transaction for the relief requester is attempted.

36. (original): The method as claimed in claim 34, wherein in the financial transaction stop process of the financial institute, an error message for a corresponding financial

transaction is generated when a direct financial transaction such as cash withdrawal, etc. is attempted.

37. (original): The method as claimed in any one of claims 34 to 36, wherein the financial transaction stop process of the financial institute further includes a process of transmitting the result of the financial transaction depending on the stop of the financial transaction to the emergency management system via the value added network server.

38.-43. (cancelled)